

CLAIMS

1. A holographic recording medium having a substrate made of a glass material and a hologram recording layer provided on the substrate, wherein a marker is provided on a surface of 5 the substrate, serving as positional information in the hologram recording layer.

2. The holographic recording medium according to claim 1, wherein

the marker comprises a print layer, and is provided on 10 the surface of the substrate opposite to a side on which the hologram recording layer is provided.

3. The holographic recording medium according to claim 1, wherein

the marker is provided on the surface opposite to a side 15 upon which a recording beam or reproduction beam is incident.

4. The holographic recording medium according to claim 2, wherein

the marker is provided on the surface opposite to a side upon which a recording beam or reproduction beam is incident.

20 5. The holographic recording medium according to any one of claims 1 to 4, wherein

the hologram recording layer is configured to be sandwiched between two substrates made of a glass material, and at least one of the two substrates is provided with the 25 marker.

6. The holographic recording medium according to claim 5,
wherein

the hologram recording layer is sealed by the two
substrates and a sealing layer disposed between the two
5 substrates.

7. The holographic recording medium according to any one
of claims 1 to 4, wherein

an anti-reflection layer for preventing surface
reflection of the recording beam or the reproduction beam is
10 formed on at least one of a surface upon which the recording
beam or the reproduction beam is incident and an opposite
surface.

8. The holographic recording medium according to claim 5,
wherein

15 an anti-reflection layer for preventing surface
reflection of the recording beam or the reproduction beam is
formed on at least one of a surface upon which the recording
beam or the reproduction beam is incident and an opposite
surface.

20 9. The holographic recording medium according to claim 6,
wherein

an anti-reflection layer for preventing surface
reflection of the recording beam or the reproduction beam is
formed on at least one of a surface upon which the recording
25 beam or the reproduction beam is incident and an opposite

surface.

10. A holographic recording and reproducing method for recording information as a hologram on a holographic recording medium and reproducing the recorded information, the
5 holographic recording medium having a substrate made of a glass material and a hologram recording layer provided on the substrate and a marker provided on a surface of the substrate as positional information, the method comprising detecting the marker by light with a wavelength different from that of a
10 recording beam or a reproduction beam for recording or reproducing the information.

11. A holographic recording and reproducing method for recording information as a hologram on a holographic recording medium and reproducing the recorded information, the
15 holographic recording medium having a substrate made of a glass material and a hologram recording layer provided on the substrate and a marker provided on a surface of the substrate as positional information, the method comprising detecting the marker by light with a recording beam or a reproduction beam
20 for recording or reproducing the information.

12. The holographic recording and reproducing method according to claim 10, wherein

the recording beam or the reproduction beam is positioned by use of the marker.

25 13. The holographic recording and reproducing method

according to claim 11, wherein

the recording beam or the reproduction beam is positioned
by use of the marker.